

# ATP7A Polyclonal Antibody

Catalog NumberPA5-36558

Product data sheet

| Details            |  |
|--------------------|--|
| Size               | 100 µL   |
| Host/Isotope       | Rabbit / IgG   |
| Class              | Polyclonal   |
| Type               | Antibody   |
| Immunogen          | Synthetic peptide corresponding to amino acids 620-670 of human ATP7A                        |
| Conjugate          | Unconjugated   |
| Form               | Liquid   |
| Concentration      | 1 mg/mL  |
| Purification       | Antigen affinity chromatography  |
| Storage buffer     | PBS, pH 7.2, with 50% glycerol   |
| Contains           | 0.02% sodium azide   |
| Storage Conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |

| Species Reactivity                        |                          |
|---|--------------------------|
| Species reactivity                        | Human, Mouse, Rat        |
| Tested Applications                       |                          |
| Immunohistochemistry (Paraffin) (IHC (P)) | Dilution *<br>1:50-1:200 |

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

## Product specific information

This antibody detects endogenous protein at a molecular weight of 163 kDa. Purity is >95% by SDS-PAGE.

## Background/Target Information

ATP7A (also known as Copper-transporting ATPase 1) functions as a transmembrane copper-translocating P-type ATPase and plays a vital role in systemic copper absorption in the gut and copper reabsorption in the kidney. Polarized epithelial cells such as Madin-Darby canine kidney cells are a physiologically relevant model for systemic copper absorption and reabsorption in vivo. Although ATP7A is not detectable in most normal tissues, it is expressed in a considerable fraction of many common tumor types. Increased expression of ATP7A renders cells resistant to cisplatin and carboplatin. Mutations in the ATP7A gene result in Menkes disease, which is fatal in early childhood.

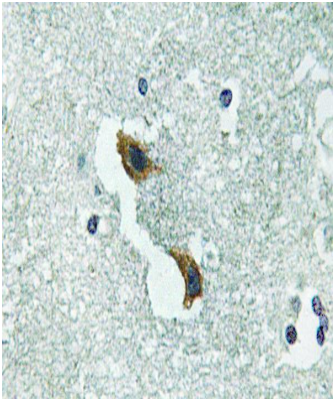
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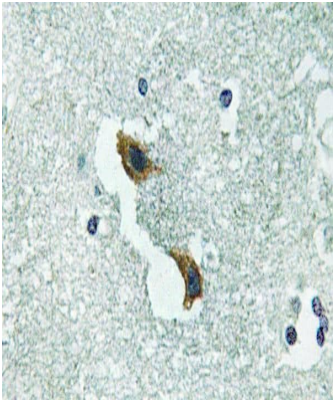
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Product Images For ATP7A Polyclonal Antibody



**ATP7A Antibody (PA5-36558) in IHC (P)**  
Immunohistochemistry analysis of ATP7A in paraffin-embedded human brain tissue. Samples were incubated with ATP7A polyclonal antibody (Product # PA5-36558).



**ATP7A Antibody (PA5-36558) in IHC (P)**  
Immunohistochemical analysis of ATP7A in paraffin-embedded human brain tissue using ATP7A polyclonal antibody (Product # PA5-36558).

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